**Shortage of electricity**

2264. SHRI SU. THIRUNAVUKKARASAR: Will the Minister of POWER be pleased to state:

(a) what is the total shortage of electricity in the country, State-wise;

(b) what steps have been taken and the amount of money allocated for electricity generation by the Ministry, to meet the shortage of electricity; and

(c) what is the expected year-wise electricity generation for the next five years?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI JAIRAM RAMESH): (a) The state-wise details of requirement, availability and shortage of electricity in the country both in terms of energy and peak for the period April - November, 2008 are given in the Statement. (*See below*)

(b) The measures taken/being taken to improve power generation in the country include capacity addition target of 78,700 MW in respect of utility power plants during the Eleventh Five Year Plan, close monitoring and review of capacity addition of the on-going power generation projects, development of a number of Ultra Mega Power Projects of 4000 MW each under tariff-based competitive bidding, harnessing surplus captive power into grid, import of coal to bridge the gap between domestic availability of coal and its requirement, *etc.*

The approved outlay for the central public sector undertakings (CPSUs) under the Ministry of Power for the year 2008-09 is Rs. 34,760.10 crore (comprising IEBR of Rs. 34,460.10 crore and GBS of Rs. 300.00 crore) which includes outlay for power generation projects as well.

(c) The targets for power generation are decided on a year to year basis. The target of power generation for the year 2008-09 has been fixed at 774.34 Billion Units.

***Statement***

*Power Supply Position*

| State / System Region | Figures in MU net Energy April to November, 2008 | | | | Figures in MW net Peak April to November, 2008 | | | |
|---|---|---|---|---|---|---|---|---|
| | Require-ment (MU) | Availa-bility (MU) | Surplus/Deficit (-) (MU) | (%) | Peak Demand (MW) | Peak Met (MW) | Surplus/Deficit (-) (MW) | (%) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Chandigarh | 1,010 | 1,010 | 0 | 0.0 | 279 | 279 | 0 | 0.0 |
| Delhi | 16,153 | 16,060 | -93 | -0.6 | 4036 | 4034 | -2 | 0.0 |
| Haryana | 19,829 | 17,863 | -1,966 | -9.9 | 5511 | 4791 | -720 | -13.1 |
| Himachal Pradesh | 4,115 | 4,087 | -28 | -0.7 | 997 | 983 | -14 | -1.4 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| Jammu and Kashmir | 6,852 | 5,320 | -1,532 | -22.4 | 2000 | 1320 | -680 | -34.0 |
| Punjab | 29,878 | 26,849 | -3,029 | -10.1 | 8690 | 7309 | -1381 | -15.9 |
| Rajasthan | 23,562 | 23,238 | -324 | -1.4 | 5772 | 5451 | -321 | -5.6 |
| Uttar Pradesh | 43,966 | 36,050 | -7,916 | -18.0 | 10587 | 8222 | -2365 | -22.3 |
| Uttarakhand | 5,079 | 5,047 | -32 | -0.6 | 1251 | 1251 | 0 | 0.0 |
| Northern Region | 150,444 | 135,524 | -14,920 | -9.9 | 33034 | 29504 | -3530 | -10.7 |
| Chhattisgarh | 10,132 | 9,843 | -289 | -2.9 | 2582 | 2266 | -316 | -12.2 |
| Gujarat | 45,682 | 40,065 | -5,617 | -12.3 | 11841 | 8817 | -3024 | -25.5 |
| Madhya Pradesh | 25,788 | 22,107 | -3,681 | -14.3 | 7564 | 6810 | -754 | -10.0 |
| Maharashtra | 79,265 | 62,941 | -16,324 | -20.6 | 18049 | 13375 | -4674 | -25.9 |
| Daman and Diu | 1,184 | 1,037 | -147 | -12.4 | 225 | 200 | -25 | -11.1 |
| Dadra and Nagar Haveli | 2,374 | 2,289 | -85 | -3.6 | 466 | 434 | -32 | -6.9 |
| Goa | 1,838 | 1,811 | -27 | -1.5 | 464 | 413 | -51 | -11.0 |
| Western Region | 166,263 | 140,093 | -26,170 | -15.7 | 37240 | 29603 | -7637 | -20.5 |
| Andhra Pradesh | 46,524 | 43,216 | -3,308 | -7.1 | 10289 | 9374 | -915 | -8.9 |
| Karnataka | 27,262 | 25,676 | -1,586 | -5.8 | 6235 | 5595 | -640 | -10.3 |
| Kerala | 11,637 | 10,273 | -1,364 | -11.7 | 3120 | 2748 | -372 | -11.9 |
| Tamil Nadu | 47,780 | 44,029 | -3,751 | -7.9 | 9750 | 9211 | -539 | -5.5 |
| Puducherry | 1,375 | 1,194 | -181 | -13.2 | 304 | 275 | -29 | -9.5 |
| Lakshadweep# | 16 | 16 | 0 | 0 | 6 | 6 | 0 | 0.0 |
| Southern Region | 134,578 | 124,388 | -10,190 | -7.6 | 27184 | 25035 | -2149 | -7.9 |
| Bihar | 7,176 | 5,867 | -1,309 | -18.2 | 1944 | 1333 | -611 | -31.4 |
| DVC | 9,271 | 9,049 | -222 | -2.4 | 2217 | 2178 | -39 | -1.8 |
| Jharkhand | 3,466 | 3,261 | -205 | -5.9 | 872 | 865 | -7 | -0.8 |
| Orissa | 13,620 | 13,392 | -228 | -1.7 | 3040 | 2958 | -82 | -2.7 |
| West Bengal | 21,295 | 20,512 | -783 | -3.7 | 5177 | 4918 | -259 | -5.0 |
| Sikkim | 198 | 193 | -5 | -2.5 | 63 | 61 | -2 | -3.2 |
| Andaman and Nicobar # | 156 | 124 | -32 | -20.5 | 40 | 38 | -2 | -5.0 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| Eastern Region | 55,026 | 52,274 | -2,752 | -5.0 | 12901 | 11664 | -1237 | -9.6 |
| Arunachal Pradesh | 318 | 190 | -128 | -40.3 | 130 | 79 | -51 | -39.2 |
| Assam | 3,583 | 3,151 | -432 | -12.1 | 958 | 787 | -171 | -17.8 |
| Manipur | 390 | 347 | -43 | -11.0 | 128 | 95 | -33 | -25.8 |
| Meghalaya | 1,247 | 983 | -264 | -21.2 | 457 | 293 | -164 | -35.9 |
| Mizoram | 215 | 176 | -39 | -18.1 | 100 | 56 | -44 | -44.0 |
| Nagaland | 276 | 266 | -10 | -3.6 | 95 | 86 | -9 | -9.5 |
| Tripura | 549 | 504 | -45 | -8.2 | 167 | 156 | -11 | -6.6 |
| North-Eastern Region | 6,578 | 5,617 | -961 | -14.6 | 1820 | 1358 | -462 | -25.4 |
| All India | 512,889 | 457,896 | -54,993 | -10.7 | 109809 | 94634 | -15175 | -13.8 |

#Lakshadweep and Andaman and Nicobar Islands are stand-alone systems, power supply position of these, does not form part of regional requirement and availability

Note : Both peak met and energy availability represent the net consumption (including the transmission losses) in the various States. Net export has been accounted for in the consumption of importing States.

**Tariff-based bidding for power transmission**

2265. SHRI N. K. SINGH: Will the Minister of POWER be pleased to state:

(a) the progress achieved, so far, in implementation of the tariff-based competitive bidding guidelines for transmission projects; and

(b) by when an integrated national grid is likely to be fully completed?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI JAIRAM RAMESH): (a) As envisaged under the provisions of Section 63 of the Electricity Act, 2003, the National Electricity Policy and the Tariff Policy, the Ministry of Power had issued "Guidelines for Encouraging Competition in Development of Transmission Projects and Tariff Based Competitive Bidding Guidelines for Transmission Services". Under the Guidelines an Empowered Committee was set up to facilitate the development of private sector participation through the competitive bidding process. The Empowered Committee headed by Member, Central Electricity Regulatory Commission (CERC) is already in place. Standard Bidding Documents as required under the Guidelines including Request for Qualification (RfQ), Request for Proposal (RfP) and Transmission Service Agreement (TSA) have been issued by the Ministry.

Rural Electrification Corporation (REC) and Power Finance Corporation (PFC) have formed Special Purpose Vehicles (SPVs) to coordinate the bid process for procurement of transmission services. RfQs for three transmission projects identified by the Empowered Committee for selection of